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- 1 [Integrating visualization into event monitoring and analysis in distributed systems management](#)  
Stephen L. Howard, James W. Hong, Michael J. Katchabaw, Michael A. Bauer  
November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research CASCON '95**

**Publisher:** IBM Press

Full text available: [pdf\(333.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference](#), [index terms](#)

Effective management of distributed computing systems involves monitoring, analysis, and control of hosts, networks, and applications. The complexity of these systems calls for innovative tools to enhance the ability of human managers to comprehend the activity of the system in order to facilitate better management. In our research, we explore techniques for visualizing the effects of management activity on a distributed computing environment. Using the visualization tools of the Partial Order ...

- 2 [Implementation of a diagnostic and troubleshooting multi-agent system for cellular network management](#)  
Mahamat Guiagoussou, Said Soulhi  
August 1999 **International Journal of Network Management**, Volume 9 Issue 4  
**Publisher:** John Wiley & Sons, Inc.  
Full text available: [pdf\(570.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference](#), [index terms](#)


This article presents the implementation of a maintenance application for cellular switch system using the multi-agent paradigm. The main philosophy behind the design of the agent system is based on the TMN framework, where each agent can be mapped with one or several TMN functional blocks. Copyright © 1999 John Wiley & Sons, Ltd.

3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren


November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

**Publisher:** IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not help the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial communication ...

4 Middleware performance analysis: Performance monitoring of java applications

 M. Harkema, D. Quartel, B. M. M. Gijsen, R. D. van der Mei

July 2002 **Proceedings of the 3rd international workshop on Software and performance WOSP '02**

**Publisher:** ACM Press

Full text available:  [pdf\(219.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Over the past few years, Java has evolved into a mature platform for developing enterprise applications. A critical factor for the commercial success of these applications is end-user performance, e.g., in terms of response times, throughput and availability. This raises the need for the development, validation and analysis of performance models to predict performance metrics of interest. To develop and validate performance models, insight into the execution behavior of the application is essential ...


**Keywords:** performance measurement and monitoring of java applications

### 5 An architecture for monitoring and modeling network systems

Gerald A. Winters, Zhenjun Zhu, Michael A. Bauer, Hanan Lutfiyya, Daniel A. Muntz, J. Teorey

November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Study on Collaborative research CASCON '95**

7 **Publisher:** IBM Press

Full text available:  [pdf\(223.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

Advances in network monitoring protocols, such as SNMP and RMON, combined with widespread availability from commercial vendors, has led to the development of tools enable system administrators to effectively manage problem domains, such as network configuration and troubleshooting. The abundance of monitoring and data-gathering tools presents an opportunity to combine network monitoring and modeling technologies to provide enhanced network management capabilities. For example, a network ...

### 6 Improving Network Operations With Intelligent Agents

Nathan J. Muller


July 1997 **International Journal of Network Management**, Volume 7 Issue 3

**Publisher:** John Wiley & Sons, Inc.

Full text available:  [pdf\(314.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)


Automating network and system management tasks has never been easier, since the advent of intelligent agents. This article describes the uses and advantages of intelligent agents to identify and resolve problems locally, instead of dispatching technicians to remote locations which is both expensive and time-consuming. © 1997 John Wiley & Sons, Inc.

### 7 Verisim: Formal analysis of network simulations

 Karthikeyan Bhargavan, Carl A. Gunter, Moonjoo Kim, Insup Lee, Davor Obradovic, Oleg Sokolsky, Mahesh Viswanathan

August 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2000 SIGSOFT international symposium on Software testing and analysis I '00**, Volume 25 Issue 5

**Publisher:** ACM Press

Full text available:  [pdf\(325.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

Why are there so few successful "real-world" programming and testing tools based on

academic research? This talk focuses on program analysis tools, and proposes a surprising simple explanation with interesting ramifications. For a tool aimed at developers or testers to be successful, people must use it - and must use it to help accomplish their existing tasks rather than as an end in itself. If the tool does not help them get their job done, or the tool is too hard to learn and/or use then ...

#### 8 Papers: Analysis of errors in network load measurements

◆ Stanislav Belenki, Sven Tafvelin

January 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(750.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference](#)


The paper identifies elements in network monitoring systems that cause errors in the load measurements found in recent reports on network statistics from an academic backbone network. Two types of network monitors are investigated: counter-based and packet capturing. The paper explains how to assign an accuracy term to the load values in counter-based monitors and how to eliminate distortion in the case of packet capturing monitors. The paper also suggests an MIB to reduce the counter-based ...

#### 9 Intrusion detection: A cooperative intrusion detection system for ad hoc networks

◆ Yi-an Huang, Wenke Lee

October 2003 **Proceedings of the 1st ACM workshop on Security of ad hoc and sensor networks SASN '03**

**Publisher:** ACM Press

Full text available:  [pdf\(197.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference](#), [citations](#)

Mobile ad hoc networking (MANET) has become an exciting and important technology in recent years because of the rapid proliferation of wireless devices. MANETs are highly vulnerable to attacks due to the open medium, dynamically changing network topology, lack of cooperative algorithms, lack of centralized monitoring and management point, and lack of a clear line of defense. In this paper, we report our progress in developing intrusion detection (ID) capabilities for MANET. Building on our prior work on ...

#### 10 Extracting usability information from user interface events

◆ David M. Hilbert, David F. Redmiles

December 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(1.50 MB) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#), [review](#)

Modern window-based user interface systems generate user interface events as natural products of their normal operation. Because such events can be automatically captured because they indicate user behavior with respect to an application's user interface, they have long been regarded as a potentially fruitful source of information regarding application usage and usability. However, because user interface events are typically voluminous and in detail, automated support is generally ...


**Keywords:** human-computer interaction, sequential data analysis, usability testing, user interface event monitoring

**11 Congestion control: CODA: congestion detection and avoidance in sensor networks**

 Chieh-Yih Wan, Shane B. Eisenman, Andrew T. Campbell

November 2003 **Proceedings of the 1st international conference on Embedded networked sensor systems SenSys '03**

**Publisher:** ACM Press

Full text available:  pdf(298.36 KB) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

Event-driven sensor networks operate under an idle or light load and then suddenly become active in response to a detected or monitored event. The transport of event impulses is likely to lead to varying degrees of congestion in the network depending on the sensing application. It is during these periods of event impulses that the likelihood of congestion is greatest and the information in transit of most importance to users. To address this challenge we propose an energy efficient congestion control ...


**Keywords:** energy efficient congestion control, wireless sensor networks

**12 Intrusion detection techniques for mobile wireless networks**

Yongguang Zhang, Wenke Lee, Yi-An Huang

September 2003 **Wireless Networks**, Volume 9 Issue 5

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(164.73 KB) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)


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The rapid proliferation of wireless networks and mobile computing applications has changed the landscape of network security. The traditional way of protecting networks with firewalls and encryption software is no longer sufficient and effective. We need to search for new architectures and mechanisms to protect the wireless networks and mobile computing applications. In this paper, we examine the vulnerabilities of wireless networks and argue that we must include intrusion detection in the security ...

**Keywords:** anomaly detection, cooperative detection, intrusion detection, intrusion response, mobile ad-hoc networks

- 13 [A scalable SNMP-based distributed monitoring system for heterogeneous network computing](#)  
Rajesh Subramanyan, José Miguel-Alonso, José A. B. Fortes  
November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '00**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(171.64](#)

[KB\)](#) 

Additional Information: [full citation](#), [abstract](#), [reference](#)

[Publisher](#)[citations, index terms](#)[Site](#)

Traditional centralized monitoring systems do not scale to present-day large, complex network-computing systems. Based on recent SNMP standards for distributed management, this paper addresses the scalability problem through distribution of monitoring tasks, applicable for tools such as SIMONE (SNMP-based monitoring prototype implemented by the authors). Distribution is achieved by introducing one or more levels of a dual entity called the Intermediate Level Manager (ILM) between ...


- 14 [Session 12C: middle agents: Supporting nomadic agent-based applications in the FIPA architecture](#)



Mikko Laukkanen, Heikki Helin, Heimo Laamanen

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3 AAMAS '02**

**Publisher:** ACM Press

Full text available:  [pdf\(1.45](#)

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Additional Information: [full citation](#), [abstract](#), [reference](#), [citations, index terms](#)

A high variety of Quality of Service (QoS) in data transmission over wireless network creates challenges that have not been adequately addressed in today's Internet-based services. Whereas today's distributed applications may result in treating rapid and external changes in QoS as failures, in the nomadic environment comprising wireless data communications we consider them as a usual case. Therefore, the complexity of data transmission should be hidden from the nomadic user and applications and ...

**Keywords:** adaptation, agent communication, nomadic application, software agent, wireless networks

**15 Dynamic Access Control: Dynamic and risk-aware network access management**

 Lawrence Teo, Gail-Joon Ahn, Yuliang Zheng

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies SACMAT '03**


**Publisher:** ACM Press

Full text available:  [pdf\(266.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference](#), [index terms](#)

Traditional network security technologies such as firewalls and intrusion detection systems usually work according to a static ruleset only. We believe that a better approach to network security can be achieved if we use quantified levels of risk as an input. In this paper, we describe a dynamic access control architecture which uses risk to determine whether to allow or deny access by a source connection into the network. A simulation of our architecture shows favorable and promising results.

**Keywords:** dynamic access control, network management, risk, risk awareness, role

**16 A mobile agent infrastructure for the mobility support**

 Paolo Bellavista, Antonio Corradi, Cesare Stefanelli

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 1 SAC '00**

**Publisher:** ACM Press

Full text available:  [pdf\(826.83 KB\)](#) Additional Information: [full citation](#), [references](#), [index](#)

**Keywords:** QoS adaptation, mobile agents, mobile and nomadic computing, mobile to resource discovery

**17** Intrusion detection in wireless ad-hoc networks



Yongguang Zhang, Wenke Lee

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking MobiCom '00**

**Publisher:** ACM Press

Full text available: [pdf\(936.44 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

As the recent denial-of-service attacks on several major Internet sites have shown us, an open computer network is immune from intrusions. The wireless ad-hoc network is particularly vulnerable due to its features of open medium, dynamic changing topology, cooperative algorithms, lack of centralized monitoring and management point, and lack of clear line of defense. Many of the intrusion detection techniques developed on a fixed network are not applicable in this new environment. Ho ...

**18** Controlling high bandwidth aggregates in the network



Ratul Mahajan, Steven M. Bellovin, Sally Floyd, John Ioannidis, Vern Paxson, Scott Shenker  
July 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(299.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

The current Internet infrastructure has very few built-in protection mechanisms, and is therefore vulnerable to attacks and failures. In particular, recent events have illustrated Internet's vulnerability to both denial of service (DoS) attacks and flash crowds in which one or more links in the network (or servers at the edge of the network) become severely congested. In both DoS attacks and flash crowds the congestion is due neither to a single flow, nor to a general increase in traffic, but ...

**19** Measurement: A high-level programming environment for packet trace anonymization and transformation



Ruoming Pang, Vern Paxson

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '03**



**Publisher:** ACM Press

Full text available:  [pdf\(251.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

Packet traces of operational Internet traffic are invaluable to network research, but publishing such traces is severely limited by the need to first remove all sensitive information. Current trace anonymization technology leaves only the packet headers in, completely stripping the contents; to our knowledge, there are no publicly available traces of any significant size that contain packet payloads. We describe a new approach to transform and anonymize packet traces. Our tool provides ...


**Keywords:** anonymization, internet, measurement, network intrusion detection, packet trace, privacy, transformation

## 20 [Monitoring QoS distribution in multimedia networks](#)

Chen-Khong Tham, Yuming Jiang, Chi-Chung Ko

March 2000 **International Journal of Network Management**, Volume 10 Issue 2

**Publisher:** John Wiley & Sons, Inc.

Full text available:  [pdf\(372.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

This paper presents two schemes, relevant monitor & IRM-based and improved relevant monitor & IRM-based, for QoS distribution monitoring. With these schemes, when monitoring a real-time flow, a network manager can locate relevant monitors that are metering the flow. Copyright © 2000 John Wiley & Sons, Ltd.

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# 1 [Survey articles: Web usage mining: discovery and applications of usage patterns from Web data](#)



Jaideep Srivastava, Robert Cooley, Mukund Deshpande, Pang-Ning Tan

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2**Publisher:** ACM PressFull text available: [pdf\(1.44 MB\)](#)Additional Information: [full citation](#), [abstract](#), [reference citations](#)

Web usage mining is the application of data mining techniques to discover usage patterns from Web data, in order to understand and better serve the needs of Web-based applications. Web usage mining consists of three phases, namely *preprocessing*, *pattern discovery*, and *pattern analysis*. This paper describes each of these phases in detail. Given its application potential, Web usage mining has seen a rapid increase in interest, from both the research and practice communities. This paper ...

**Keywords:** data mining, web usage mining, world wide web


## 2 [Resource management for scalable disconnected access to Web services](#)




Bharat Chandra, Mike Dahlin, Lei Gao, Amjad-Ali Khoja, Amol Nayate, Asim Razzaq, Sewani

April 2001 **Proceedings of the 10th international conference on World Wide Web V**  
**'01**


**Publisher:** ACM Press

Full text available:  pdf(410.68 KB) Additional Information: [full citation](#), [references](#), [citing index terms](#)

3 [Web content accessibility guidelines 1.0](#)

 Wendy Chisholm, Gregg Vanderheiden, Ian Jacobs  
July 2001 **interactions**, Volume 8 Issue 4


**Publisher:** ACM Press

Full text available:  pdf(471.98 KB) Additional Information: [full citation](#), [references](#), [citing index terms](#)

4 [Social role awareness in animated agents](#)

 Helmut Prendinger, Mitsuru Ishizuka  
May 2001 **Proceedings of the fifth international conference on Autonomous agents**  
**AGENTS '01**


**Publisher:** ACM Press

Full text available:  pdf(145.59 KB) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)


This paper promotes {\itshape social role awareness\} as a desirable capability of ani agents, that are by now strong affective reasoners, but otherwise often lack the social competence observed with humans. In particular, humans may easily adjust their beha depending on their respective role in a socio-organizational setting, whereas their synt pendants tend to be driven mostly by attitudes, emotions, and personality. Our main contribution is the incorporation of `social fil ...

**Keywords:** affective reasoning and emotion expression, believability, human-like qua of synthetic agents, social agents, social dimension in communication

5 [Measuring and characterizing end-to-end Internet service performance](#)

 Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat  
November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issu


**Publisher:** ACM Press

Full text available:  [pdf\(1.46 MB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

Fundamental to the design of reliable, high-performance network services is an understanding of the performance characteristics of the service as perceived by the client population as a whole. Understanding and measuring such end-to-end service performance is a challenging task. Current techniques include periodic sampling of service characteristics from strategic locations in the network and instrumenting Web pages with code that records client-perceived latency back to a performance server. Li ...


**Keywords:** End-to-end service performance, QoS, network packet traces, passive monitoring, reconstruction of web page composition, web site performance

#### 6 [The <bigwig> project](#)

 Claus Brabrand, Anders Møller, Michael I. Schwartzbach

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(586.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

We present the results of the <bigwig> project, which aims to design and implement a high-level domain-specific language for programming interactive Web services.

A fundamental aspect of the development of the World Wide Web during the last decade is the gradual change from static to dynamic generation of Web pages. Generating Web pages dynamically in dialog with the client has the advantage of providing up-to-date and tailored information. The development of systems ...


**Keywords:** Interactive Web services, program analysis

#### 7 [Open learning objects for data structure course](#)

Longzhuang Li, Hongchi Shi, Yi Shang, Su-Shing Chen

April 2003 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 4

**Publisher:** Consortium for Computing Sciences in Colleges

Full text available:  [pdf\(111.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

The paper presents an approach to the design of Open Learning Objects (OLOs). The approach is based on open standards, mostly XML markup languages and their related. It enables learning-object-to-learner interaction and supports learning object adaptation to the learner. We use inner metadata to describe the OLOs with features of learner adaptation and interaction. OLOs designed using this approach can be used to organize learning materials of a wide range of courses, and better support learning ...

## 8 Performance: Clarifying the fundamentals of HTTP



Jeffery C. Mogul

May 2002 **Proceedings of the 11th international conference on World Wide Web W**  
**'02**

**Publisher:** ACM Press

Full text available: pdf(157.39 KB) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

The simplicity of HTTP was a major factor in the success of the Web. However, as the protocol and its uses have evolved, HTTP has grown complex. This complexity results in numerous problems, including confused implementors, interoperability failures, difficulty extending the protocol, and a long specification without much documented rationale. Most of the problems with HTTP can be traced to unfortunate choices about fundamental definitions and models. This paper analyzes the current (HTTP ...

**Keywords:** HTTP, protocol design

## 9 World Wide Web: Predicting web actions from HTML content



Brian D. Davison

June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypermedia**  
**HYPERTEXT '02**

**Publisher:** ACM Press

Full text available: pdf(243.13 KB) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

Most proposed Web prefetching techniques make predictions based on the historical references to requested objects. In contrast, this paper examines the accuracy of predicting user's next action based on analysis of the content of the pages requested recently by the user. Predictions are made using the similarity of a model of the user's interest to the text and around the hypertext anchors of recently requested Web pages. This approach can make predictions of actions that have never been ...


**Keywords:** WWW, information retrieval, prediction, prefetching, similarity, textual, modeling

**10** N for the price of 1: bundling web objects for more efficient content delivery

◆ Craig E. Wills, Mikhail Mikhailov, Hao Shang

April 2001 **Proceedings of the 10th international conference on World Wide Web W '01**

**Publisher:** ACM Press

Full text available:  [pdf\(208.61 KB\)](#) Additional Information: [full citation](#), [references](#), [citing index terms](#)


**Keywords:** HTTP, delta encoding, persistent connections, web performance

**11** Personalizing E-commerce applications with on-line heuristic decision making

◆ Vinod Anupam, Richard Hull, Bharat Kumar

April 2001 **Proceedings of the 10th international conference on World Wide Web W '01**

**Publisher:** ACM Press

Full text available:  [pdf\(261.12 KB\)](#) Additional Information: [full citation](#), [references](#), [citing index terms](#)


**Keywords:** B2C E-commerce, personalization, pro-active intervention, vortex rules s

**12** An RTP-based synchronized hypermedia live lecture system for distance education

◆ Herng-Yow Chen, Yen-Tsung Chia, Gin-Yi Chen, Jen-Shin Hong

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1) MULTIMEDIA '99**

**Publisher:** ACM Press

Full text available:  [pdf\(930.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference index terms](#)

In this article, we have introduced a “Live Synchronized Hypermedia Live Lecture (S System” using RTP to synchronize the live presentation of streaming video lecture, H based lecture notes, and HTML page Navigation Events. The SHLL framework consists three major modules: (1) SHLL Recorder- for recording the temporal information of the lecture and the HTML-based lecture notes navigation processes. (2) SHLL Event Server receiving, depositing, and multicasting SHL ...


**Keywords:** RTP, distance learning, multimedia synchronization

**13 Managing resources and services: Metis: lightweight, flexible, and Web-based workflow services for digital libraries**

Kenneth M. Anderson, Aaron Andersen, Neet Wadhwani, Laura M. Bartolo

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries JCDL '03**

**Publisher:** IEEE Computer Society

Full text available:  pdf(154.93 KB) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

The Metis project is developing workflow technology designed for use in digital libraries avoiding the assumptions made by traditional workflow systems. In particular, digital libraries have highly distributed sets of stakeholders who nevertheless must work together to perform shared activities. Hence, traditional assumptions that all members of a workflow belong to the same organization, work in the same fashion, or have access to similar computing platforms are invalid. The Metis approach ...


**14 Industrial sessions: big data: The SDSS skyserver: public access to the Sloan Digital Sky data**



Alexander S. Szalay, Jim Gray, Ani R. Thakar, Peter Z. Kunszt, Tanu Malik, Jordan Ragan Christopher Stoughton, Jan vandenBerg

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

**Publisher:** ACM Press

Full text available:  pdf(1.48 MB) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

The SkyServer provides Internet access to the public Sloan Digital Sky Survey (SDSS) for both astronomers and for science education. This paper describes the SkyServer goals and architecture. It also describes our experience operating the SkyServer on the Internet.


The SDSS data is public and well-documented so it makes a good test platform for research on database algorithms and performance.

### 15 The architecture of robust publishing systems

◆ Marc Waldman, Aviel D. Rubin, Lorrie Faith Cranor

November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(680.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference](#), [index terms](#)


The Internet in its present form does not protect content from censorship. It is straightforward to trace any document back to a specific Web server, and usually directly to an individual. As we discuss below, there are valid reasons for publishing a document in a censorship-resistant manner. Unfortunately, few tools exist that facilitate this form of publishing. We describe the architecture of robust systems for publishing content on the Web. The discussion is in the context of Publius, as that ...

**Keywords:** Censorship resistance, Web publishing

### 16 A component model for standardized web-based education

◆ August 2001 **Journal on Educational Resources in Computing (JERIC)**

**Publisher:** ACM Press

Full text available:  [pdf\(384.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference](#), [index terms](#), [review](#)

We present a layered component model to support Web-based collaborative applications. We show how this model lets programmers focus on the particular logic of their applications, avoiding most of the issues related to collaboration, access control, and network management. The proposed model is organized into three layers on top of a foundation composed of commercial-off-the-shelf services and standard Internet protocols. The service level provides a network-transparent communications layer, data ...

**Keywords:** authoring tools, collaborative systems, educational web applications, learning technology standardization, web-based course delivery systems

17


Full Papers: Intelligent analysis of user interactions with web applications



◆ Laila Paganelli, Fabio Paternò

January 2002 **Proceedings of the 7th international conference on Intelligent user interfaces IUI '02**

**Publisher:** ACM Press

Full text available:  [pdf\(761.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)


In this paper, we describe a tool able to perform intelligent analysis of Web browser logs using the information contained in the task model of the application. We show how the approach supports remote usability evaluation of Web sites.

**Keywords:** remote evaluation, task models, tools, usability

18 Exploiting space and location as a design framework for interactive mobile systems

◆ Alan Dix, Tom Rodden, Nigel Davies, Jonathan Trevor, Adrian Friday, Kevin Palfrey  
September 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, V 7 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(282.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)


This article considers the importance of context in mobile systems. It considers a range of context-related issues and focus on location as a key issue for mobile systems. A design framework is described consisting of taxonomies of location, mobility, population, and device awareness. The design framework informs the construction of a semantic model space for mobile systems. The semantic model is reflected in a computational model for a distributed platform that allows contextual info ...

**Keywords:** awareness, context information, design framework, location-sensitive applications, mobile systems, platform support, shared interaction, virtual space

19 Weakly augmented reality: observing and designing the work-place of creative designer

◆ Giorgio De Michelis, Flavio De Paoli, Costanza Pluchinotta, Marco Susani  
April 2000 **Proceedings of DARE 2000 on Designing augmented reality environments DARE '00**

**Publisher:** ACM Press

Full text available:  [pdf\(387.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

In this paper we distinguish between two spatially oriented system design paradigms: and strong augmented reality. The weak augmented reality paradigm is then applied in design of a system supporting co-operation and knowledge creation within a design context. The system has been designed on the hints we got from two subsequent ethnographies work practice of creative designers. Since the design centre moved to a new location between our two sets of observations, we clearly focus ...


**Keywords:** augmented reality, creative design, knowledge management systems, spatial arrangements

20 [A two-stage modeling and simulation process for web-based modeling and simulation](#)

 Taewoo Kim, Jinho Lee, Paul Fishwick





July 2002 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 12 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(883.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [reference citations](#), [index terms](#)

The area of web-based simulation has thrived primarily on novel methods for executing models, with contributions to both client and server side applications based in Java and web-accessible languages. However, there has not been a commensurate degree of research in the area of model design, and in the dissemination of models over the web to support discrete event simulation. For a web-based modeling framework to succeed, that framework must support at least one markup language for specifying ...

**Keywords:** DOM, Modeling, Simulation, X3D, XML, XSLT, framework, methodology, multimodeling, web-based

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J Bradshaw

F Magrabi, NH Lovell, BG Celler - International Journal of Medical Informatics, 1999 - lomiweb.med.auth.gr

J Miller

E Shaw

D Brutzman

... this method would require a separate **server** API that would **monitor** HTTP requests ...

4 illustrates a typical data exchange between the Web **server** and **client**.

...

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Virtual Reality Transfer Protocol (vrtp) Design Rationale - group of 16 »

D Brutzman, M Zyda, K Watsen, M Macedonia - Proceedings of the 6th Workshop on Enabling Technologies on ..., 1997 - doi.ieeecs.org

... **Client**, **server**, peer-to-peer and in-between solutions must all be ... such as http,

DIS,multicast streaming, Java **agents**, network **monitoring** etc.) just as ...

Cited by 54 - Related Articles - Web Search

Method and apparatus for monitoring information access - group of 2 »

J Jawahar, V Dilip - US Patent 6,256,620, 2001 - Google Patents

... DOWNLOAD AN ACCESS **MONITORING** APPLICATION TO THE USER'S COMPUTER ... VIEWED WEB PAGES ON THE WEB **SERVER** ... IDENTIFY **AGENTS** FAMILIAR WITH THE INFORMATION CONTAINED IN ...

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Navigating the World Wide Web: bookmark maintenance architectures - group of 2 »

C Sørensen, D Macklin, T Beaumont - Interacting with Computers, 2001 - Elsevier

... Because the **client** built the GUI based on a **server** ... database of containing the web pages retrieved for **monitoring**. The Web Spy **server** would run the specified web ...

Cited by 12 - Related Articles - Web Search

Redesigning the Web: From Passive Pages to Coordinated **Agents** in PageSpaces - group of 10 »

P Ciancarini, R Tolksdorf, F Vitali, D Rossi, A ... - 3 rdInternational Symposium on Autonomous Decentralized ..., 1997 - doi.ieeecomputersociety.org

... feature, the queue is updated by a **client**-pull mechanism. ... such a list is by the built-in HTTP **server**. ... Epsilon thus can **monitor** the managed **agents**, and restart ...

Cited by 19 - Related Articles - Web Search

NIST Special Publication 800-19—Mobile Agent Security - group of 28 »

W Jansen, T Karygiannis - Gaithersburg, MD: National Institute of Standards and ..., 1999 - csrc.nist.gov

... discussed have counterparts in conventional **client-server** systems and ... from one **agent** to another **agent** or **agents**. **Monitoring** the message flow may allow other ...

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Pedagogical **agents** on the Web - group of 4 »

E Shaw, WL Johnson, R Ganeshan - ... of the third annual conference on Autonomous **Agents**, 1999 - portal.acm.org

... the pedagogical **agent**, the simulation, the **client-server**, and the ... The reasoning engine performs all **monitoring** and decision ... is saved to the **server** where it is ...

Cited by 86 - Related Articles - Web Search

KAoS: An open agent architecture supporting reuse, interoperability, and extensibility

JM Bradshaw - Tenth Knowledge Acquisition for Knowledge-Based

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Design issues in mobile agent programming systems - group of 10 »  
 NM Karnik, AR Tripathi - Concurrency, IEEE [see also IEEE Parallel  
 & Distributed ..., 1998 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... **Client ... Server ...** Applications that **monitor** events on remote  
 machines—such as whether  
 a particular stock's price has fallen below a threshold—also benefit ...  
 Cited by 238 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Mobile Objects and Mobile Agents: The Future of Distributed  
 Computing - group of 11 »

DB Lange - ECOOP, 1998 - Springer

... The applet and the servlet, while serving as **client** and **server**  
 extenders, respectively ...

An **agent** is able to **monitor** a given information source without  
 being ...

Cited by 99 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

A Monitoring Sensor Management System for Grid Environments -  
 group of 18 »

B Tierney, B Crowley, D Gunter, J Lee, M Thompson - Cluster  
 Computing, 2001 - Springer

... trigger netstat and vmstat **monitoring** on both the **client** and **server**  
 for the ... Application

activity is detected by a port **monitor agent** running on the **client** ...

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System for monitoring and managing computer resources and  
 applications across a distributed ... - group of 3 »

DN Bonnell, KL Tatarinov, MW Picard - US Patent 5,655,081, 1997 -  
 Google Patents

... apparatus are disclosed for **monitoring** and managing ... systemruns  
 on each ofthe **server**



computer systems ... The **agents** are capable of intelligent, autonomous operation ...

Cited by 242 - Related Articles - Web Search

Mobile **Agents** for Network Management - group of 3 »

A Bieszczad, B Pagurek, T White - IEEE Communications Surveys, 1998 - scs.carleton.ca

... harder to implement using classical **client/server** approaches ... performance of networks

are difficult if a centralized **server** is ... If the local **monitoring agent** is a ...

Cited by 302 - Related Articles - View as HTML - Web Search

Systems and methods for monitoring distributed applications including an interface running in an ... - group of 3 »

N Agarwal, P Perret, MG McMenemy - US Patent 5,958,010, 1999 - Google Patents

... the **agents** 30<sup>10</sup> can also **monitor** loop back ... a distributed application are located

on the same **client**. Loop back information passes between the **server** and the ...

Cited by 62 - Related Articles - Web Search

... of requests independent of **client** and receives information from the **server** independent of the **server** - group of 3 »

JL Verkler, ML Lambert, KL Harrenstien, M Shafiq, ... - US Patent 5,850,517, 1998 - Google Patents

... enee of the **client** to the network and **server**. Such events are ... information sent to

**client** 300. gateway may **monitor** the queues of the **agents** and deter- ...

Cited by 63 - Related Articles - Web Search

KQML as an agent communication language - group of 41 »

T Finin, Y Labrou, J Mayfield - Software **Agents**, 1997 - boole.cs.iastate.edu

... it is a stock ticker and inviting **monitor** requests concerning ... the simplest, one **agent**

acts as a **client** and sends a ... to another **agent** acting as a **server** and

then ...

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[BOOK] [Mobile Agents for Mobile Computing](#) - group of 36 »

RS Gray, D Kotz, S Nog, D Rus, G Cybenko - 1996 - it.korea.ac.kr

... Unlike traditional **client-server** computing, **agents** continue to ... which is provided

by the local **agent server**. ... **agents** contact the network **monitor** to obtain ...

[Cited by 132](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#)

[Delegated agents for network management](#) - group of 2 »

G Goldszmidt, Y Yemini - Communications Magazine, IEEE, 1998 - [ieeexplore.ieee.org](#)

... Tradi- tional distributed computing in general, and **client-server** sys- tems in ... **agents**

are dynamically linked within an M,D **server** to **monitor**, ana- lyze, and ...

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